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ABSTRACT

This guide was developed to provide a record of the current resources available for school media centers as they seek to support career education in the elementary grades. Included with complete descriptions are announcements of: (1) kits for classrooms, (2) a variety of basic learning materials, (3) instructional equipment for use in teaching various concepts, (4) devices for individualized instruction, (5) simulations and instructional games, (6) guidance kits, (7) filmstrips and films, (8) professional books and documents, and (9) selected books for students. The names and addresses of publishers and suppliers are listed and a subject index is provided. (Author/SN)

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Elementary School Learning Resources for Career Education

"PUTTING IT ALL TOGETHER"

FOR K-6 N.J. SCHOOL MEDIA CENTERS AND LIBRARIES

WINTER 1973

This Publication is Dedicated to The Honorable William T. Cahill, Governor of the State of New Jersey.

Because of the Governor's interest in career orientation and vocational education and because of his Career Development Project's assistance in getting his manuscript published, we respectfully and gratefully dedicate this publication to the Honorable William T. Cahill, Governor of the State of New Jersey. If it were not for his personal leadership, New Jersey would not be leading the way as it does today in many facets of career orientation programming.

STEPHEN POLIACIK
Assistant Commissioner of Education

A Service of the New Jersey Occupational Resource Center, Edison to New Jersey School Media Centers and Libraries

VT021003

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Elementary School Learning Resources for Career Education

by Edwin York, Wesley Perusek, Richard Harnack, Priscilla Walsh, Madhu Kapadia, Gordon Law Jr., and Leo Richards

The purpose of this extended listing is to provide a record of current resources available for school media centers as they seek to support Career Education in elementary schools.

Why should school media centers emphasize career orientation as a major area for purchasing this year? Three reasons seem to be emerging: (1) if the schools are becoming more humane centers of activity, the life-long career concerns of the students will be increasingly emphasized; (2) at present, the majority of each year's high school graduates are unemployable and are therefore condemned to a continued dependency which is harmful to both the student and the society; and (3) the people's representatives – the U.S. Congress and the President – have passed the "Education Amendments of 1972", which includes an amendment to E.S.E.A. Title II, requiring that such federal aid to school libraries include an emphasis on career preparation equal to the emphasis now given the traditional academic curriculum.

The need for elementary school media centers to support career development is not a new theme. These excellent guides were made available in former years: *Occupational Information in the Elementary School* by Willa Norris (S.R.A., 1963); *Occupational Information for Grades Three through Eight* by Atlanta Public Schools (1970); *A Selected Bibliography of Occupational Literature for Grades Three through Eight by Atlanta Public Schools* (1970); and *Titles for Technology: An Annotated Bibliography by Technology for Children Project* (N.J. Department of Education, Trenton, 1968). The items listed in these guides were typically from the early '60's or before, whereas this listing focuses on materials published since 1968.

Most elementary school media centers already have some resources about various occupations. But information about a few dozen occupations just isn't enough. It's a complex process to help someone find his career.

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This publication is a joint effort of (1) program specialists such as Wesley Perusek, Research Associate, Technology for Children Program, and Richard Harnack, Assistant Director, Technology for Children Project; and (2) information specialists from the N.J. Occupational Resource Center at Edison, who made the following kinds of contributions to this manuscript:

Edwin York, Coordinator, N.J. Occupational Resource Centers, coordinated and edited the manuscript's development;

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Madhu Kapadia, Supervising Information Specialist, N.J. Occupational Resource Center at Edison, had responsibility for the "Professional Books and Documents" and "Publishers and Suppliers" sections;

Gordon Law, Jr., Research Associate, N.J. Occupational Resource Center at Edison, had responsibility for such sections as "Simulations and Instructional Games," "Guidance Kits" and "16mm. Films";

Leo Richards, Coordinator, N.J. Career Education Media Evaluation Project at the Edison center, had responsibility for the "Filmstrips" section.

Grateful acknowledgment is also made for those who carefully reviewed the manuscript and made suggestions for its improvement into a final draft; such persons were as follows:

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BASIC NEEDS

Those developing curriculum for the nursery to adult Career Education programs throughout the nation tell us that when a committee of teachers sits down to orient the K-to-12 curriculum to career development, there are six dimensions that get careful attention.

All six have their basis in the elementary schools; even responsible attitudes and decision making, often considered as areas of development appropriate to secondary school, shall in fact be dealt with beginning with school entry. These are the six broad goals for Career Education:

1. Career awareness. (students will gain knowledge about the range, nature and requirements of various careers)

2. Self-awareness. (students will gain knowledge about their own interests, abilities, aptitudes and potential)

3. Responsible attitudes. (students will demonstrate attitudes appropriate to exploring and developing their career potential)

4. Decision-making. (students during their early school years develop skill in making all kinds of everyday decisions so that they will be able to make such decisions concerning employment and/or education in high school)

5. Backgrounds of current careers. (students will gain knowledge about economics, societal, and technological aspects of careers in contemporary American society)

6. Basic educational skills. (throughout their formal schooling students will acquire the basic communicative and computational skills so that by the time they are in high school they will be ready for entry level employment and/or continuing education).

You feel this is a major re-orientation of the curriculum and of the educational process? Exactly. It is. And isn't it about time? After all, the whole student body will need to be employed some day, even though 20% might make it through college.

If you want some reliable data on the appalling need for such a movement in American education, send to us for a free special paper "Why Career Education; the Facts."

CHANGES IN THE SCHOOL MEDIA CENTER

The elementary school media center has a promising future, no matter what changes are coming to the American elementary school, and change is blowing in the wind. One promising career orientation program for the elementary school – Technology for Children – certainly requires change in what is current operation for the elementary school media center. Let us look briefly at this important program and its influence on such change.

Technology for Children (T4C) is a New Jersey elementary school (K-6) Career Education program with three goals: (1) to encourage growth in self-awareness; (2) to encourage learning about what people do to earn a living; and (3) to enhance academic achievement. T4C began in 1966 and is undoubtedly the fastest growing elementary career orientation program in the nation at this time.

Because T4C features an individualized learner-centered approach in a rich and stimulating learning environment, it is often compared with "open education," a movement as yet without concensus except in the broadest terms, as reported in "Open Education: An Operational Definition and Validation in Great Britain and the United States" (*American Educational Research Journal*, Spring, 1972, pp. 197-208) and "The Open Classroom: Underlying Premises" (*Urban Review*, September, 1971, pp. 4-10). Although "open education" lacks the clear goals of T4C, the two are similar, are quite compatible, and are now actually working together in a number of New Jersey schools.

The classrooms of T4C are cluttered but busy and happy places. They are activity oriented. Individualized teaching and learning is emphasized in a typical procedure known as "guided discovery."

Three brief papers describing Technology for Children are now available without charge from the T4C Office, Room 302, N.J. Dept. of Education Building, 225 W. State Street, Trenton, N.J. 08625: (1) *Technology for Children: A Three-Year Narrative Report of T4C . . . Jan. 1, 1969 to Dec. 1, 1971;* (2) *Rationale — Technology for Children;* and (3) *Implementation of Technology for Children Curriculum.* All were written by the Director of the T4C Project, Dr. Fred J. Dreves. An additional introductory tool is a color film strip with cassette (72 frames; 8 minutes), "Technology for Children: An Introduction," which is available for loan from the T4C Office or the N.J. Occupational Resource Center, Edison.

Two major changes in elementary school media center seem to be called for by T4C: (1) school media centers will need to function increasingly as suppliers to classrooms of a tremendous variety and number of objects, explorable resources, machines and everyday items such as string, clay, paper straws etc.; and (2) school media centers will be competing increasingly as but one of very many learning spaces in the school, on the schoolgrounds, in the school neighborhood, and in the wider community.

There should be no panic because of the changes suggested above. Recognizing trends in educational emphasis, the school media center would do well to be initiating changes to make instructional re-orientations as smooth as possible. In many situations, such changes will be gradual, because in actual operation the American school is quite conservative and tends to compromise innovation with traditional practices.

THIS LISTING

The resources introduced in this publication were chosen for both traditional and newer classroom approaches, although some sections will be of greater interest to one of the two.

This listing focuses on many forms of media normally dated since 1968. A wide range of resources is certainly needed for this important thrust of the total curriculum. We are presenting the resources under types of media for this reason: not all elementary school media centers have all the basic equipment needed and will want to plan to develop their software resources with their present equipment strengths and limitations in mind.

In organizing this list, those types of media probably least familiar will be listed first. Consequently, films and books will come last. The sections will be as follows:

1. Kits for Classrooms
2. An Extensive Variety of Basic Learning Materials
3. Equipment with Many Instructional Uses
4. Devices for Individualized Instruction
5. Simulations and Instructional Games
6. Guidance Kits
7. Filmstrips
8. 16mm. Films
9. Professional Books and Documents
10. Books for Students

Hard-to-find addresses of publishers and suppliers are provided at the end of this publication.

1. kits for classrooms

With the current emphasis on increasing initiative of the learner in the classroom through various kinds of self-directed discovery experiences, there is developing a great need for the school media center to provide kits of materials suitable for supporting short-term individual and small group activities.

The ten kits that are suggested below are designed to provide relatively complete sets of materials for interest centers. Some people call them discovery areas. They are set up on tables for several weeks in classrooms or provide enough materials to involve a small group or a whole class in a special discovery project.

Kit #1 — Printing Kit

Permits activities strengthening communications skills. A number of sets are available, but Workshop for Learning Things has an especially workable set. Order Printing Press Kit (GA100) for $95.00.

Kit #2 — Microscope Set

Use a set of three or more to help them discover the minute detail of the natural world. Purchase microscopes made to function well for children, such as the 25X, 50X and 75X microscopes available for $8.25 each from Workshop for Learning Things.

Order each of the three for the children to compare magnification of the same object: SA018, SA019, and SA020. This particular microscope can be attached to a slide projector to project the magnified image on a large screen.

Kit #3 – Sound Kits

Assemble your own own collection of quiet-type soundmakers for this kit. Included: various sizes of tuning forks; different sizes of jugs for blowing over; a rack of test tubes and a stick for experimenting with varied pitches of test tubes when filled with different amounts of water, and a single wire tightened on a board between bridges. Avoid the usual musical instruments for the purpose of this kit; they will probably be distracting.

Kit #4 – Classroom Tool Kit

For a short term need for real tools of the kind used in most households, a number of tool kits are on the market. Don't buy cheap tools. Be sure to keep them in a sturdy tool box or on a portable tool rack such as the equipment designed for the Technology for Children Project. A good set of 15 tools in a wooden tool box is available from the Workshop for Learning Things for $33.00 (MA500). A more extensive set of tools on a convenient portable rack is recommended by the Technology for Children Project from Graves – Humphreys, Inc. for less than $700.

Kit #5 – Cardboard Carpentry Kit

Cardboard carpentry? Yes. What is it? Children build play equipment, class furniture and equipment, large art forms, props for classroom dramatics, models of buildings and vehicles, and – you name it. Even canoes and catamarans are possible but require considerable expertise and are not recommended for beginners.

The cardboard is 9/16 in. thick and usually comes in sheets 4 x 5 ft. It is tremendously strong because of its three layers of corrugation and is easy and very safe to handle because it is essentially a lot of heavy brown paper. It is one third the weight of comparable plywood and half the price. Anyone can work with it with simple tools and it takes paint nicely. The only real limitation is that it must not be made wet, so that it can only be used outside temporarily.

To start cardboard carpentry, simply order the cardboard and use a few sets of your classroom tool kits plus a few yardsticks and paring knives for the occasion. Order 20 sheets of 4 feet x 5 feet Tri-Wallboard TW61 for about $80.00 from Trent Box Mfg. Co., 1384 Yardville-Hamilton Square Rd., Trenton, N.J. You can save about 40% by ordering quantities of 100 sheets or more, but go slow to start and get experience with this medium. We recommend a staff workshop on cardboard carpentry before teachers begin using it. (Invite a Technology for Children staff person to lead your workshop). Two helpful booklets you will probably want are *Cardboard Carpentry Workshop* (BA001 – $1.50) and *Further Adventures of Cardboard Carpentry* (BA002 – $2.00) from Trent Box Company.

Storage of the large sheets of cardboard will probably be a problem. Most elementary school media centers will not have the space to store 20 or 100 large sheets of cardboard until they are needed. Your principal and janitor hopefully will open the right doors to provide you with the dry storage area you need for the cardboard.

When cardboard carpentry is well established in your school, you will want to consider some more elaborate equipment. Trent Box Company offers: a Basic Tool Kit (CA200 – $80.00) for a small group working with cardboard carpentry: a Complete Tool Kit (CA100 – $170) for more tools and a very handy sabre saw for older children; and an Accessory Tool Kit (CA300 – $58.50) for special tools to cut slots, grooves and different sizes of holes.

This one kit will probably change the life of your school more than any other. Try it. The children will love it. And they can help build their own learning and living environment.

Kit #6 – Wood Construction Set

Wooden versions of gears, pulleys, trusses, levers, threads, wheels, axles, struts, brakes, nuts, bolts, and wrenches come in a 618 piece construction set sold by Workshop for Learning Things. Children build carts, towers, cranes, etc. using the basic tools or our technology. Everything except the struts and gears are stored and moved in tote boxes. Order Construction Set (MA200) for $395.00. This set weighs 245 lbs., so consider installing some plywood sections with big casters on them to help move the boxes easily.

Kit #7 – Wood Threading Tool Kit

Consists of a threading die and a threading tap; makes it possible to make your own wood bolts and nuts. Bolts can be cut to any desired length, and with wooden nuts children can make many useful strong structures with cardboard, wood or other structural materials. Wood Threading Kits No. X77, 3/4" size, $26.35, available from Woodcraft Supply Co.

Kit #8 – Fischertechnik Construction Set

An award winning construction set with wide constructional uses. Comes in interchangeable add-on units. The system is designed to allow children to copy and invent mechanisms and machines, and to set up working models. Units vary from pre-school to electronics, statics and computers. Available from Fischertechnik, Fischer-of-America.

Kit #9 – Ecology Kits

Five Kits, each for a small group, cover these topics: Why Are Leaves Green?; Life in the Water; What Moves Life; Life From Death; and Predator-Prey.

Available from: Urban Systems, Inc.

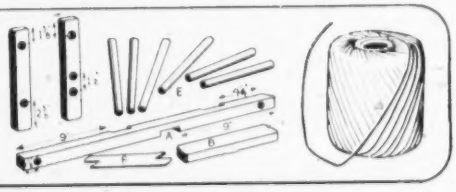
Kit #10 – The Teaching Typewriter

Programming Card Sets and Programming Kit. Individualized learning in color recognition, number concepts and reading activities. Childcraft Education Corporation.

Other kits and sets of learning materials are also desirable. The Technology for Children Program has available sheets describing key materials and basic procedures for exploration by children in the following areas:

1. PHOTOGRAPHY WITHOUT A DARKROOM
2. AEROSPACE (Design and Build; Wing Shape)
3. PAPER RECYCLING AND USE
4. PRINTING (Screen Process; Letter Press)
5. PRODUCT TESTING (Canned Fruit; Scouring Pads; Batteries; Lubricating Oil; Weighing Scales; Ball Bounce; Taste Preference Testing)
6. MEASUREMENT (Balance Scale; Pulse Rate and Exercise; Linear; Altitude; Falling and Rolling Objects; Metric and English)
7. ELECTRICITY (Light; Heat; Motion I; Motion II; Motion III; Current Control)
8. FOODS (Butter Making; Testing for Starch; Solar Cooker)
9. SOUND (Xylophone; Computer Music)
10. DISCOVERY – INVENTION
11. GAMES
12. TOOL MAKING
13. CONSTRUCTION (Tri-Wall; Fischertechnik)
14. CALCULATORS – COMPUTERS
15. INERTIA
16. TELEVISION
17. MATH MATERIALS AND PROBLEMS
18. SAND AND WATER
19. RUBBER STAMP MAKING
20. POLLUTION – AIR QUALITY SAMPLING
21. RADIO MAPPING
22. GEOBOARDS

2. an extensive variety of basic learning materials



Materials in the classroom become learning materials only when children use them and invest them with meaning, according to the Education Development Center of Newton, Massachusetts, the original "sponsor" for the informal classroom in the U.S. in recent years.

No standard listing of materials is possible for all informal learning, because each such classroom situation is unique. However, Roland S. Barth of the Harvard Graduate School of Education has suggested five criteria for selecting materials for this purpose ("Open Education," *Childhood Education*, Vol. 47 No. 6, March 1971):

Criterion #1: Whenever possible, encourage and permit children to supply their own materials.

Criterion #2: Whenever possible, encourage children to explore the real world outside of the classroom and outside of the school.

Criterion #3: The best materials for children are common ones, which are inexpensive, familiar, and easily available.

Criterion #4: Ambiguous, multi-programmed materials which suggest to the child a wide number of possible paths of exploration are preferred.

Criterion #5: Select materials which have a high likelihood of initiating and extending exploration."

With informal learning, the real depository for such learning materials (and we have probably always considered such materials as clutter) is the individual classroom, and the school media center is the second stop for this kind of material rather than the first.

The initiative for choosing and securing useful materials for the informal classroom clearly rests with the students and the teachers. However, it should be admitted that

ordinary familiar materials which should be available for informal learning frequently will not be available without some supportive action by the school media center.

Examples of such learning materials are clay, wood, cloth, plastics, spools, cardboard tubes, candles, buttons, wire, yarn, balls, string, egg cartons, bricks, tin cans without tops, milk cartons, boxes, blocks, mirrors, marbles, sponges, styrofoam, and plastic bottles thoroughly cleaned. Each kind of material should be in separate trays or boxes for convenient storing and moving.

Small looseleaf notebooks are important for children to record their activities and impressions, and we cannot assume they will be available in the classroom. A great variety of pens and pencils may be provided in special jars for loan to classrooms for special projects. A stock of what we once called "oil cloth" will be helpful for teachers trying to keep work surfaces neat. A few stacks of newspapers for emergency needs may prove very valuable.

Changes in the kinds of materials available in informal classrooms are important. The learning environment should be changing and evolving to stimulate the attention and interest of the students. By providing boxes of such basic learning materials on long term loans and changing assignments in careful patterns, the learning environment can be kept interesting and challenging in every room in the school.

3. equipment with many instructional uses

Man's tools expand his abilities to do tasks needed by the society. Tools should be both the object of considerable attention as a study of man's tool-making and tool-using activities, and the opportunity for children to discover basic principles and new applications for commonly used devices. A clock, for example, can be used to study geography, mathematics, history, metals, international standards of time, kinds of power, and other topics.

A great variety of ordinary machines and apparatus used today are needed for the children to examine, compare, discuss and apply man's current technology. Such typical devices, besides those listed in section one above, are listed below:

Magnifying glasses
Gyroscopes
Pendulums
Room thermometer
Sprayers

Springs
Staplers
Stopwatch
Tape measures
Transistor radio

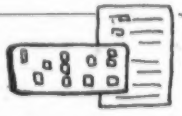
Batteries
Aquarium
Cages for pets
Camera
Clock

Duplicating machine children can use
Earphones
Electric cooker for children's use
Kiln
Loom
Movie camera
Paper cutters
Sewing machines
Typewriter
Shortwave radio
Woodwork bench (on wheels)

Locks
Hinges
Pincers
Abacus
Adding machine
Grocer's scales
Bathroom scales
Bicycle pump
Binoculars
Clinical thermometer
Electric bell
Electric wires and switches
Electric motor
Gardening tools

Such a list of suggested equipment and materials for open classrooms was provided by Mary Brown and Norman Precious in *The Integrated Day in the Primary School* (Agathon, 1969), pp. 141-149.

4. devices for individualized instruction



Compulearn Career Education Program

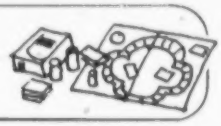
8 1/2" x 11" Compulearn Console (simple desk computer), 322 program cards (112 for gr. k-6; 60 for gr. 6-7; 60 for gr. 8-9; 90 for gr. 10-12), and various guides. $65 for elementary; $65 for middle schools; $65 for gr. 10-12; Console alone, $25. Developed with U.S.O.E. funding, the Compulearn Program of Career Education is divided into three modules: the Awareness module (Grades K-6), the Guidance module (Grades 7-9), and the Establish module (Grades 10-12). (A) In the Awareness module, the student is taught to recognize the fact that everybody works, that all careers are important, and that all people need each other's services. (B) In the Guidance module, the student uses a decision-making routine to determine his career profile, and is then directed to careers having the same characteristics. He then defines his own ideas of success and of what he wants from his career. (C) The third module, the Establish phase, gives the student basic facts about such items as average yearly salary, employment outlook and length of training time required for over 200 careers; the student is then taught how to research and evaluate career information, and is finally given a set of guidelines to help him prepare for his future after high school graduation, be it immediate employment, college, vocational school, or the armed services.

To use this device, a plastic program card is selected and placed on the face of the 8 1/2" x 11" box. The Question

Probe is inserted into a hole corresponding to a question the person chooses to answer. The Answer Probe is inserted into the chosen answer outlet. If the answer chosen was correct, a light appears. A Select Button will also provide the correct answer with a light.

Field testing in Pittsburgh and North Carolina showed the system to be of continuing value in both group-structured and independent learning settings.

5. simulations and instructional games



Many instructional games teach children basic language and mathematical skills. The best known of these are undoubtedly the WFF 'N PROOF math games.

Games should be carefully examined before purchase. The math games especially seem almost entirely abstract.

The following seven simulations or games were designed to develop some degree of economic or social awareness, which can serve as a background for children understanding careers. You are invited to examine them at the New Jersey Occupational Resource Center at Edison.

ELECTION. (by Joseph Young) ELECTION simulates the presidential nomination and election process. Four players may participate in a 30-60 minute period. The game is unrealistic and depends heavily upon chance. However, it may be of some usefulness in explaining the workings of the political process. [Available from Educational Games Company ($5.35)]

EXPLORERS I AND EXPLORERS II. (by Jay Reese) EXPLORERS I simulates the initial discovery of the new world, while EXPLORERS II concentrates upon the exploration and exploitation of Central and South Ameriea. Eighteen to thirty-five students may play in 15-20 fifteen minute periods. A good way to make the names and dates more than names and dates. [Available from SIMILE II ($4.50 each or $8.50 for both)]

JUNIOR EXECUTIVE. JUNIOR EXECUTIVE is a retail business game. Two to four may play. The game is quite simple and depends heavily upon chance. It does illustrate such concepts as business credit, insurance, and seasonality of business. [Available from Western Publishing Co. ($2.00)]

MARKET. (by William D. Rader, Katherine E. Chapman, and Linn Orear) MARKET simulates retail supply and demand, with participants acting as retailors and consumers. Eighteen to forty may participate in a playing period of one or two hours. In the words of reviewer David Zuckerman, "MARKET is the only intellectually respectable, interactive economics game available for really young children." [Available from Industrial Relations Center, University of Chicago ($50.00)]

PAY THE CASHIER. (by Edward R. Dolch) PAY THE CASHIER is a money-changing game emphasizing arithmetic. Two to six players may participate in a fifteen minute session. It is an applied situation rather than an abstract one. [Available from Garrard Publishing Co. ($4.50)]

STOCK MARKET GAME. It simulates speculation in the stock market. One to six may play in an hour or two. While the game is relatively simple, it is fairly realistic. [Available from the Avalon Hill Company ($9.98)]

SYSTEM I. A simulation of the theory-building process. Two to eight may participate in a 20-40 minute session. Students attempt to organize subject matter into systems of classification. [Available from Instructional Simulation, Inc. ($9.85)]

6. guidance kits

FOCUS ON SELF-DEVELOPMENT [STAGE ONE: AWARENESS and FOCUS ON SELF-DEVELOPMENT] [STAGE TWO: RESPONDING]. STAGE ONE is designed for grades K-2, and STAGE TWO is for grades 2-4. STAGE TWO may be coordinated with STAGE ONE or used separately. Kits contain filmstrips, records, photoboards, student activity books (for 25 students) and teacher's guide. The program is designed in flexible units, to develop awaronesses of self and others. Additional components may be ordered separately. [Available from Science Research Associates ($126.70 for Stage One and $146.75 for Stage Two)]

7. filmstrips

There seems to be a shortage of filmstrips useful for the orientation of young children to the world of work.

In the compilation of this list, the National Information Center for Educational Media (NICEM) *Index to Filmstrips* together with various catalogues of instructional materials, were consulted. However, the NICEM Index did not appear to include listings of filmstrips in the area of careers which were suitable for the elementary grade levels.

The filmstrips listed below are nearly all in color and with sound. The source from which they may be obtained and the costs are given for all items listed.

Series of filmstrips are listed before single filmstrips.

A. SERIES

COMMUNITY WORKERS AND HELPERS. 47 Frames – 7 minutes, color, sound. A two-group series of F/S. Portrays people in various community situations. Introduces various catagories of workers. Emphasizes interrelationship between workers and the community.

Titles under Group I are: "School Workers", "Library Workers", "Supermarket Workers" and "Doctor's Office Workers".

The Group 2 titles are; "Department Store Workers", "Hospital Workers", "Fire Department Workers" and "Television Workers."

Available from: S.V.E. . Set of 4 F/S, 2 Records $32.50; Set of 4 F/S, 2 Cassettes $36.50.

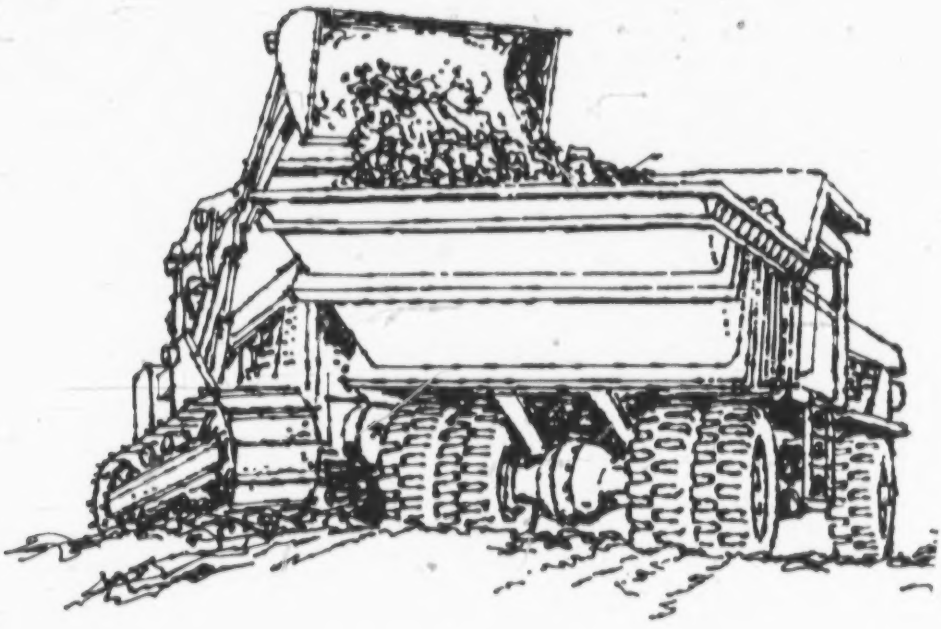
MY MOTHER HAS A JOB. Color, sound. A series of 6 F/S. Presents women in various job situations outside the home and gives details of steps required in the performance in each of the jobs. Titles in this series are: "The Advertising Agency Executive", "The Retail Clerk", "The Nurse", "The Teacher", "The Commercial Artist" and "The Factory Worker".

Available from: Eye Gate. Set of 6 F/S, 6 Cassettes, Teacher's Manual $69.00; 1 F/S $7.00; 1 Cassette $5.50; 1 Record $5.00.

OUR NEIGHBORHOOD WORKERS. Color, sound. A series of 9 F/S. Introduces a variety of workers and professions to students. Designed to help children broaden their knowledge about the various catagories of workers who contribute to their health and safety.

Titles of the filmstrips in this series are: "The Baker", "The Dairyman", "The Shoemaker", "The Tailor", "The Neighborhood Laundry", "The Butcher", "The Banker", "The Watchmaker and Jeweler" and "The Fruit and Vegetable Store".

Available from: Eye Gate – Set of 9 F/S, 5 Cassette Tapes, Teacher's Manual $73.50; Set of 9 F/S, Teacher's Manual $48.50; 1 F/S $6.00; 1 Cassette $5.50.



SOME NEIGHBORHOOD HELPERS. Color, captions. Series of 9 F/S. Stresses worth and contributions of all workers. Emphasizes health and health workers. Introduces various neighborhood workers.

Filmstrips in the series are: "The Neighborhood Doctor", "The Neighborhood Nurse", "The Neighborhood Pharmacist", "The Neighborhood Optometrist", "The Neighborhood Barber", "The Neighborhood Beautician", "The Neighborhood Newspaper Store", "The Automobile Service Station" and "The Neighborhood Fish Store".

Available from: Eye Gate – Complete Series off 9 Captioned Filmstrips with Teacher's Manual $48.50. Individual Filmstrip $6.00.

THE WONDERFUL WORLD OF WORK. A series of 24 F/S. Depicts real-life situations to stimulate curosity and imagination of children K-6. Presents various occupations with which children are familiar. Designed to assist a teacher to introduce early vocational awareness in the area of social studies. Filmstrips for the K-3 group are: "Getting to Know the World of Work", "The Newspaper Boy", "The Junior Home-Maker at Your Service", "Electrical Services", "Gas and Oil Services", "Telephone Services", "Mail Delivery", "Dairy Product Delivery", "Drug Store Workers", "Supermarket Workers", "Service Station Workers". Titles of filmstrips in the 4-6 group are: "What Else Do Fathers Do"? "Just What Do Mothers Do"? "It's in Your Hands", "Home Economics", "Electrical Workers", "Gas and Oil Workers", "Telephone Workers", "Technical and Industrial Workers", "Distributive Occupations", "Office Occupations", "Health Services" and "National Resources".

Available from: Denoyer-Geppert Times Mirror. Set of 12 F/S, 12 LPs, Teacher's Guide $162.00; Set of 4F/S $54.00.

WORKERS FOR THE PUBLIC WELFARE. Color, captions. Series of 9 F/S. Presents various public workers in field of health, safety and public welfare. Aims at developing concepts, understanding and appreciation of various types of workers. Suitable for guidance and career orientation. Titles in this series are: "Police and Police Protection", "Fire and Fire Fighters", "Post Office and Postal Workers", "Education and the Teacher", "The Library and the Librarian", "Social Service and the Social Worker", "Sanitation and the Sanitation Workers", "Transportation and Transportation Workers" and "Recreation, Park and Playground Workers".

Available from: Eye Gate – Set of 9 F/S, Teacher's Manual $48.50; 1 F/S $6.00.

WORKING IN U.S. COMMUNITIES. 54 frames avg. per F/S – 15 minutes, color, sound. Series of 8 F/S. Illustrates leading forms of economic activities. Emphasizes people and their needs. Shows how workers meet needs in eight different locations in the U.S. and relate business to history and geography of the respective locations.

Titles under Group 1 are: "Old Sturbridge and Mystic Seaport: Historic Communities", "Douglas, Wyoming: Ranch Community", "Rockland, Maine: Coastal Community", "Flagstaff, Arizona: Service Community".

Titles under Group 2 are: "New Orleans: Marketing Community", "San Francisco: Financial Community", "Detroit: Manufacturing Community" and "Chicago: Transportation Community".

Available from: S.V.E. . Set of 4 F/S, 2 Records $32.50; set of 4 F/S, 2 Cassettes $36.50; F/S with Guide $7.00.

B. SINGLE FILM STRIPS

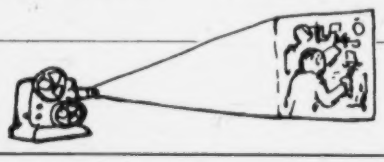
FAMILY MEMBERS WORK. Captioned F/S, color, 49 frames. Shows jobs done by every member in the family —inside and outside the home. Points out that even the smallest child can contribute. Available from: S.V.E. $7.00.

FLIGHT TO GRANDMOTHER'S. 21 minutes, color, silent. Depicts adventures of a boy and a girl on a trip by air to visit their grandmother. Orients children to various careers in aviation. Available from: Federal Aviation Administration, (FFA) Film Library Ac-44.5 – Free Loan.

WHERE AND HOW PEOPLE WORK AND LIVE. Sound. Introduces the concept of economic interdependence and flow of goods from producer to consumer. Includes various workers, skills and equipment. Available from: Franklin Publications, Inc. – $8.00.

WHERE OUR DADDIES WORK. (by Marjorie Colyer and Jean D. Washington) Color. Introduces young children to various work situations in which their fathers work. Available from: Eye Gate – $6.00.

8. 16mm. films



Most 16mm. films of interest seem to be directed toward the professional development of elementary school educators, rather than toward elementary school students. Aside from those individually described in this publication, the reader is referred to the catalog of the Education Development Center, Inc., 55 Chapel St., Newton, Mass. 02160, which lists a number of useful films for educators concerning innovative elementary programs.

The films are listed here under the following categories: (a) an overview of the concept of Career Education for educators and parents; (b) for use with students; and (c) for use with educators.

A. An Overview of the Concept of Career Education for Educators and Parents

CAREER EDUCATION (U.S.O.E.) 1972; 27 min., sound, color. Revised edition; original edition was withdrawn. Five major directions for Career Education are identified and illustrated: (1) the whole community, including the home, must be involved; (2) every teacher in every subject area must contribute to and greatly benefit from the Career Education approach; (3) guidance programs must be expanded to include career development for all; (4) business and labor must be partners with the schools in providing work experience programs; and (5) specific skill training is necessary for job entry, skill ungrading or job re-entry. A major value of the film is that educators come to see Career Education not as "cast in bronze" or as a finished blueprint but as something that must be invented locally if it is to be effective. Reviewed in *Career Education Progress*, Vol. 1, No. 2 (Spring 1972). The revised edition, when available, will be available for loan without charge from the N.J. Occupational Resource Center, Edison. If you wish to purchase a copy of the revised edition: $92.50 from Sales Branch, National Audio-Visual Center, Washington, D.C. 20409.

B. For Use With Students

IT'S UP TO YOU. (Henk Newenhouse, Inc.) 1969; 11 min., sound, color. A discussion of training opportunities in the armed forces. For further information, see *Film News*, V.27, N.3.

OPPORTUNITY EVERYWHERE. (Henk Newenhouse, Inc.) 1969; 14 min. sound, color. A rock and roll presentation of the diversity of careers open to young people. For further information, see *Film News*, V.27, N.5.

WERC Films (Why Not Explore Rewarding Careers?) (American Personnel and Guidance Association) 1972. A series of twelve color sound films providing essential information about careers not requiring a four year college degree. Tested successfully as a package with upper elementary, middle, junior and senior high school students and with dropouts. They are each about 25 to 30 minutes long. Recommended by Dr. Sidney C. High Jr., Chief, Exemplary Programs and Services Branch, Division of Vocational and Technical Education, U.S. Office of Education. The titles in the series are as follows:

"Work, What's It All About?" (introduces the series)
"Careers in Allied Health Services"
"Careers in the Building Trades"
"Careers in Business and Office Occupations"
"Careers in Communications"
"Careers in Industry"
"Careers in Machine Trades"
"Careers in Personal Services"
"Careers in Sales – The Joys of Selling"
"Careers in Skilled Services"
"Careers in Transportation"
"How Do You Get There"

[Available from A.P.G.A.: $225 each (purchase), $20 each per day (rental)]

C. For Use With Educators

CHANGE: TRAINING TEACHERS FOR INNOVATION. (Institute for the Development of Educational Activities, Inc.) 26 min., sound, color. A discussion of the applicability of industrial training techniques to in-service teacher training. Available from I.D.E.A., $225.00 (purchase), $12.00 (three day rental).

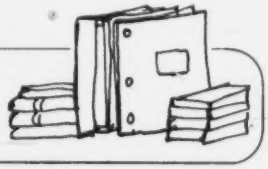
CHARLIE AND THE GOLDEN HAMSTER – THE NONGRADED ELEMENTARY SCHOOL. (Institute for the Development of Educational Activities, Inc.) 13 min., sound, color. A day in the life of a student in a non-graded elementary school. Available from I.D.E.A., $125.00 (purchase), $7.50 (three day rental).

CONTINUOUS PROGRESS TEACHING. (Institute for the Development of Educational Activities, Inc.,) 22 min., sound, color. A discussion of the spiral curriculum, and curriculum design for continuous learning. Available from I.D.E.A., $200.00 (purchase), $11.00 (three day rental).

PRIMARY EDUCATION IN ENGLAND. (Institute for the Development of Educational Activities, Inc.,) 17 min., sound, color. An examination of British innovations in primary education. Available from I.D.E.A., $150.00 (purchase), $10.00 (three day rental).

TEAM TEACHING IN THE ELEMENTARY SCHOOL (Institute for the Development of Educational Activities, Inc.,) 17 min., sound, color. A training film for teachers interested in team teaching approaches. Available from I.D.E.A., $200.00 (purchase), $11.00 (three day rental).

9. professional books and documents



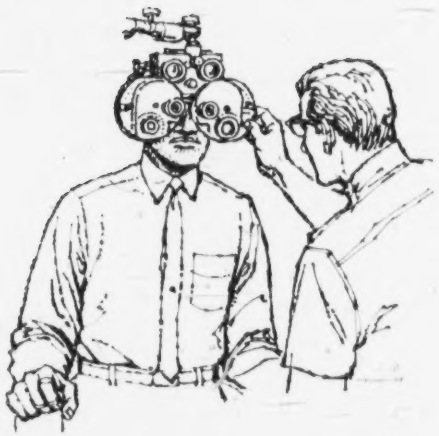
Teachers and administrators are an important target for the services of elementary school media centers. Consequently, the resources uniquely meeting their needs are a consideration which should not receive an "optional" or "next year" treatment.

Carefully planned development of resources for professional use is especially important because of both the growing need for the growth of professionals and also the substantial expense of some of the suggested resources.

The subsections below will consider: free ERIC documents in microfiche form; career information; education in the U.S.; multi-media information; and printed instructional materials. All items listed are available for examination at the N.J. Occupational Resource Center at Edison, or have been ordered.

A. FREE E.R.I.C. DOCUMENTS

New Jersey educators now have the advantage of having access to free copies of nearly every E.R.I.C. (Educational Resources Information Center) document in microfiche form. This means that every school media center utilizing this service has added to its resources for its professional educators a collection of about 85,000 documents. E.R.I.C. covers the entire range of education, from early childhood



education through university levels. This nation-wide information system has been in operation since November of 1966. Every month nearly one thousand current reports are added to E.R.I.C.

"The New Jersey Career Education Research Utilization System" is the name given to a unique E.R.I.C. availability service, which began in June 1971 and distributed 17,000 documents to New Jersey educators during its first year of operation. A local school media center or individual educator phones or writes the Resource Center at Edison with "ED" document numbers and the staff of the Resource Center reproduces the documents and mails them normally within 24 hours directly to the requestor. At this time, no other public agency is performing this function in New Jersey.

Just to get started, school media centers could (1) rely on listings of E.R.I.C. documents found in various publications such as *Feedback* or *Career Education Progress*, which are both quarterlies issued by the N.J. Occupational Resource Centers; and (2) rely on borrowing a portable microfiche reader stationed in every county of New Jersey.

In order to more fully exploit this system, school media centers need E.R.I.C. indexes (less than $100.00), some type of portable microfiche readers (about $100.00) and this phone number and address: 201-985-7769; N.J. Occupational Resource Center, Bldg. 871, R.M.C., Plainfield Ave., Edison, N.J. 08817.

Some useful E.R.I.C. indexes are listed here with ordering information:

1. *Research in Education*. A monthly abstracting and indexing journal announcing recently completed research or research-related reports and other documents of educational significance. Reading only the abstracts in one's subject area is itself an education. Subject, author, and institution indexes. (Annual subscription: $21.00, with annual index, $28.00. Available from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402).

2. *E.R.I.C. Educational Documents Index 1966-69*. $34.50.

3. *E.R.I.C. Educational Documents Index 1970-71*. $25.00. Both the above culminated indexes of R.I.E. are available from C.C.M. Information Corp., 866 Third Avenue, New York, N.Y. 10022.

4. *Abstracts of Instructional Materials in Voctional and Technical Education*. A quarterly abstracting and indexing journal specializing in curriculum guides and other valuable instructional materials designed for use in the classroom.

5. *Abstracts of Research and Related Materials in Vocational and Technical Education*. A quarterly journal incorporating abstracts and indexes of research and other related documents. (Annual subscription for each of the above two is $11.00. Available from: The Center for Vocational and Technical Education, The Ohio State University, 1900 Kenny Road, Columbus, Ohio 43210).

B. CAREER INFORMATION

There are an extensive number of resources for professional use concerning career information.

Automation, Manpower, and Education. Jerry M. Rosenberg. New York: Random House, 1966. Paperbound, SED 5, 179 pp., $1.95. Educational implications of automation as a form of technological change, and the manpower challenge it creates. Surveys programs designed to meet the manpower revolution, and suggests education's responsibilities in preparing students and others for changing job markets.

Dictionary of Occupational Titles. 3rd edition. Vol. I *Definitions of Titles*. GPO, 1965. 809 pages. $5.00. The DOT has become a standard source of occupational information in the broad area of manpower and related fields. Volume one lists alphabetically by job title the definitions of 21,741 jobs. This revised edition contains 5,432 new job titles. The definitions provide the following information: functions performed by the worker; significant aptitudes, interests, and temperaments required by the job; and, critical physical demands and working conditions.

Volume II. Occupational Classification and Industry Index. 1965. 665 pages. $4.25. Volume II complements Volume I by presenting the occupational classification structure consisting of two arrangements of jobs: (1) occupational group arrangement and (2) worker traits arrangement.

Supplement I: Selected Characteristics of Occupations. 1966. 280 pages. $2.75. Lists individual physical demands, working conditions, and training time data for each job defined in the *Dictionary*.

Supplement II. Selected Characterisitcs of Occupations by Worker Traits and Physical Strength. 1968. 156 pages. $1.25. Rearranges the data of Supplement I by grouping together jobs according to worker traits.

Dictionary of Personnel and Guidance Terms. Hopke, William E., ed. Chicago, J.G. Ferguson, 1968. 464 pages. $10.95. A valuable dictionary of more than 3,000 terms in the field of counseling and guidance. It also includes terms from related areas of sociology, psychology, testing, etc. as are relevant to the field of counseling and guidance. It is actually a compilation of definitions from various sources.

A large number of entries have two or more definitions, reflecting different meanings assigned by different persons or changes in the meaning of the terms.

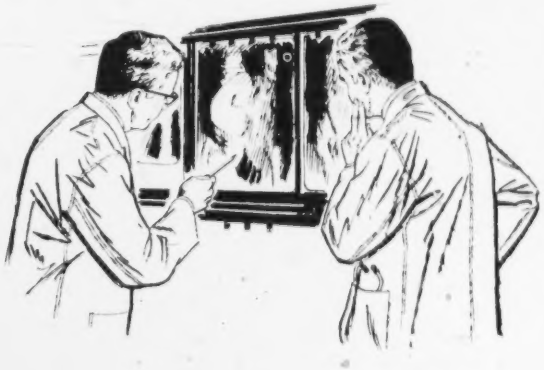
Educators Guide to Free Guidance Materials. 10th ed. Randolph, Wisconsin, Educators Progress Service, 1971. 252 pages. $8.75. Published annually. This tenth annual edition lists, classifies, and provides complete information on titles, sources and contents of 653 films, 43 filmstrips and 15 sets of slides, 50 tapes, 5 scripts, 2 transcriptions, 1 videotape and 262 books, pamphlets, posters etc. – a total of 1,031 resource items available free of cost (no rental of service charges). The most useful section is the source and availability index which provides names and addresses of the organizations from which materials can be obtained with special directions when required.

Manpower (Monthly magazine), U.S. Department of Labor, Manpower Administration, Washington, D.C. About 34 pp. per issue; annual subscription of 12 issues, $7.50. Covers broad spectrum of programs and developments in job training and employment, including efforts to aid the disadvantaged, and improve vocational education and research.

Manpower Report of the President, 1972. U.S. President and U.S. Department of Labor. Washington: U.S. Government Printing Office, March, 1972. Paperbound, 284 pp., $2.25. Comprehensive and authoritative source of information, statistical data, and analysis concerning manpower trends and federal government policies dealing with manpower problems. Published annually since 1963 under provisions of the Manpower Development and Training Act of 1962.

NVGA Bibliography of Current Career Information. National Vocational Guidance Association, 1969. 129 pages. $2.00. This compilation lists more than 1,300 publications, with the levels of recommendation, evaluated from 1966-1968 in the *Vocational Guidance Quarterly* which systematically reviews and grades the current career literature.

1969 Handbook on Women Workers, U.S. Department of Labor, Wage and Labor Standards Administration, Women's Bureau. Bulletin No. 294. Washington: U.S. Government Printing Office, 1969. Paperbound, 384 pp., $1.50. Reference book covering such items as the participation and characteristics of women in the labor force, the patterns of their employment, occupations, income and earnings, education and training.



Occupational Literature: an Annotated Bibliography. Forrester, Gertrude. New York, H.W. Wilson, 1971 edition. 519 pages. $15.00. The 1971 edition of this comprehensive bibliography annotates nearly 6,000 selected references to available occupational literature. Of these, only 1,500 are books but 4,500 are pamphlets, otherwise difficult to locate. Approximately 1,000 publications are available free. Publications are classified under about 500 occupational titles arranged alphabetically and with DOT numbers. Titles are annotated with complete bibliographic information and some of them are starred or double starred for recommendation. It is an indispensable work of great value for building a collection of career literature.

Occupational Outlook Handbook, 1972-73 Edition. Bureau of Labor Statistics, GPO, 1972. 879 pages. $6.25. This *Handbook* is the most comprehensive, most authentic, and most valuable source for occupational and career information. The current eleventh edition describes 800 occupations and 30 major industries. For each occupation, it explains the nature of work, places of employment, training and other qualifications required, advancement opportunities, employment outlook and earnings and working conditions. It also identifies sources of additional information.

The introductory chapter, "Tomorrow's Jobs", gives a graphic overview of where people work today, what will be the employment growth through the 1970's and interrelationship of education, training and job opportunity.

The *Handbook* is designed for use by students, parents, teachers and counselors. Counselors looking for career information should always first turn to this outstanding work. The *Handbook* is revised and reissued every two years and in between the two editions is kept up to date by the *Occupational Outlook Quarterly*, which reports the findings of new occupational outlook research.

A total of 141 reprints on different occupations is available separately for 10¢ - 20¢. Also available for $10.00 is a set of 40 color slides, *Jobs for the 1970's*, describing the occupational composition of today's work force and the changes anticipated during the 1970's.

Poverty Amid Plenty (The American Paradox), The Report of the President's Commission on Income Maintenance Programs, November, 1969. Washington: U.S. Government Printing Office, 1969. Paperbound, 155 pp., $1.75. Report of the "Heineman Commission" on problems of poverty and income in the U.S., with proposed remedies. Includes a review of concepts, statistics, and policy issues relating to poverty and social welfare.

C. EDUCATION IN THE U.S.

A Bibliography of Open Education. Barth, Roland S. and Rathbone, Charles H. Cambridge, Mass., Advisory Council for Open Education, 1971. 34p. $1.25. Not much material is available on the subject of open education. This bibliography provides a list of 265 items including books, articles, films and periodicals. All entries are briefly annotated and some key items are asterisked. Entries are arranged in broad subject categories. Also provided are an author-title index and the addresses of producers and distributors.

Digest of Educational Statistics. Washington, D.C., GPO, 1970. p. 140. $1.25. Published annually. This annual is a compilation of statistics, presented entirely in tables and charts. The information has been gathered from governmental and private sources and covers the whole field of American education from kindergarten through graduate school. The publication contains information on a variety of subjects within the field of educational statistics, including the numbers of schools and colleges, enrollments, teachers, graduates, educational attainment, finances, federal funds for education, libraries, international education, and research and development.

Education Directory. Washington, D.C., GPO. Published annually in 4 parts:

Part I: State Governments, 1969-70. 1969. p. 163 $1.00

Part II: Public School Systems, 1970-71. 1971. 298 p. $2.25

Part III: Higher Education, 1970-71. 1971. 515 p. $3.75

Part IV: Education Association, 1969-70. 1970. 109 p. $1.25

A valuable reference work for names, addresses, facts and figures on various aspects of education.

Education Index. Monthly (except July and August). New York, H.W. Wilson. $25.00 per year. This basic fundamental index to periodical literature is an indispensable reference work in education. Currently it indexes about 240 American and a few British titles. Although primarily a periodical index, it also includes proceedings, yearbooks, bulletins, monographs and material printed by the U.S. Government. For each citation, it gives author, title, volume, paging, and date of periodical, with indication of illustrations, portraits, and bibliographies when these are found in the articles.

Education U.S.A. Special Reports. Washington, D.C., National School Public Relations Association. $36.00 per year for 10 special reports. Each special report probes in depth a single area of education, brings you up to date on current developments, reports on successful programs in operation in school districts, contains case studies and profiles of effective projects and tells you how to locate additional helpful information. Some of the reports are: year-round schools, vocational education, differentiated staffing, etc. Each individual report is available for $4.00.

Encyclopedia of Educational Research. 4th ed. Macmillan, 1969. 1522p. $31.00. This encyclopedia provides "a critical and evaluative synthesis of the literature of educational research." Scholarly articles typically include a critical summary and evaluation of research on the topic to date, and suggest needed research in the area. Providing long lists of selected references to research studies and education literature in general is the most valuable feature of this work. The encyclopedia is updated by the *Review of Educational Research*.

The Integrated Day in the Primary School. Brown, Mary and Precious, Norman. New York, Agathon Press, 1969. p.157 $6.00. A very practical account of open classroom activity, written by two Leicestershire principals. The account is a fascinating one, not theoretical and idealistic, but firmly rooted in real experiences. Educators would find in this work a wealth of ideas. The book has some interesting illustrations, and appendices contain a bibliography and lists of equipment and materials.

Standard Education Almanac 1971. Los Angeles, Academic Media, 1971. 509 pages. $35.00. Published annually. This is a comprehensive, up to date guide to educational facts and statistics useful as a "ready reference" source of educational information for teachers, librarians, administrators and the general public. The entire volume is conveniently divided into six parts: education (general); elementary and secondary education; higher education; education and the federal government; related statistics of education; and directories of education. The index provides quick access to the specific topics such as adult education, vocational education, legislation, busing, etc.

D. MULTI-MEDIA RESOURCES

The Audio-Visual Equipment Directory 1972-73. 18th edition. Herickes, Salley, ed. National Audio-Visual Association, 1972. 464p. $9.25. This 1972-73 directory contains illustrations, model numbers, specifications and prices of more than 1,500 current items of audio-visual equipment. It includes all types of equipment.

Audiovisual Market Place 1971; a Multimedia Guide. Bowker, 1971. 234p. $15.00. Published annually. An annual directory of both hardware and software producers and distributors. Entries are arranged alphabetically by firm name and indicate addresses, phone numbers, names of key personnel, types of equipment or material offered, and availability of printed material supplied with the product.

Catalog of Educational Films, 1969-72. Visual Aids Service, University of Illinois, 1969. p.599 $3.00. The Visual Aids Service at the University of Illinois has one of the largest and finest collections of 16mm educational films available on a rental basis. This catalog annotates more than 10,000 titles. The coverage is broad and extensive. In addition to the description of the film's content, each entry gives: the name of the producing organization and/or national distributor of the film; running time; black and white or color; production date; grade level; and rental rate.

Film descriptions are listed alphabetically by title. Th[illegible]s a fairly detailed subject index.

Educational Product Report. Monthly, published nine times a year, October through June. Educational Products Information and Exchange Institute. $35.00 per year. EPIE provides information and counsel based on impartial, independent studies of availability, use and effectiveness of educational materials, equipment, and systems. Some of the reports on instructional equipment are: Day Study Carrels, 8mm Silent and Sound Projectors, Helical Scan Video Tape Recorders, Dial Access and Alternative Systems, 16mm Projectors, etc. *Educational Product Report* is indeed unique and indispensable. Every month the *Report* contains information that can save a school many times its yearly $35.00 membership fee.

Guide to Simulation Games for Education and Training. Zuckerman, David W. and Horn, Robert E., eds. Information Resources, Lexington, Mass., 1973. 501p. $15.00 This is an up to date, carefully edited reference source giving complete information on over 400 simulation games. Descriptions of games are arranged by subject; categories include business, economics, ecology, reading, mathematics, urban affairs, etc. Simulations are both educational as well as fun. This *Guide* should lead to some really interesting learning experiences. Get the second edition.

Index to Educational Overhead Transparencies. 3rd edition. New York, Bowker, 1972. $49.50. Lists and describes over 35,000 transparencies with the following information: descriptive annotation, series listing, physical size, type (prepared, operable, polarized), number of overlays, color, audience level, producer/distributor codes and year of release.

Index to Education Video Tapes. 2nd edition. New York, Bowker, 1972. $16.50. Lists and describes the educational content of over 9,000 tapes. The alphabetical title section, in addition to providing annotation for each title, contains the following information: length in minutes, series listings, indication of broadcast quality, tape size availability (1/2", 3/4", 1" and 2"), release date in the U.S. and producer/distributor codes. Most video tapes are available from distributors in either standard quadruplex or helical scan tape configurations.

Index to 8mm Motion Cartridges. 3rd edition. New York, Bowker, 1972. $34.50. Lists and describes over 18,000 educational 8mm motion cartridges, with the following information: annotations; running time; series listing; audience level; year of release; producer/distributor codes; color or black and white; whether film is silent; optical or magnetic sound track; and, LC card number.

Index to Vocational and Technical Education. 1st ed. New York, Bowker, 1972. $22.50. National Information Center for Educational Media is the world's largest data bank for audiovisual materials. NICEM has published a number of indexes. This one is a multimedia index. It is a valuable source to over 15,000 titles in seven media areas dealing with all aspects and all levels of vocational education. For each entry, arranges alphabetically by title, it gives the following information: descriptive annotations; series listings; physical description of media, such as type, color, speed, etc.; audience level; producer/distributor codes; and year of release. Only three other individual NICEM indexes are annotated here; some other NICEM indexs are to 16mm films, to filmstrips, and to audio tapes and records.

New Educational Materials, 1970. Markham, Lois, comp. New York, Citation Press, 1970. 239p. $3.75 pa. Published annually. This edition evaluates more than 500 items including books, films, recordings, multi-media kits, filmstrips, transparencies, film loops, teaching-learning games and professional guides. Entries are arranged by title and provide author, publisher, year, price, pages and suggested grade level and rating. Wtih this 1970 annual, the *New Educational Materials* series brings together over 2,200 evaluations. Every school media center should have the complete series.

E. PRINTED INSTRUCTIONAL MATERIALS

Four major types of instructional materials are listed below:

(1) guidebooks for career awareness; (2) some volumes of the Childcraft series; (3) some curriculum episodes from the N.J. Technology for Children program; and (4) some publications of the Joint Council on Economic Education.

(1) GUIDEBOOKS

One widely use guidebook for the career awareness of elementary school children has been available for a number of years: *The World of Work: Increasing the Vocational Awareness of Elementary School Children*. Gambino, Thomas, W. Trenton, N.J. State Department of Education, 1969. 52p. $2.00 from the N.J. Vocational Education Curriculum Laboratory.

A new guide to classroom activities helpful to Career development – at elementary, middle and high school levels – has just been released: *Career Education Resource Guide*. General Learning corporation, 1972. 252p. About one hundred brief instructional segments are outlined in the following format: concepts; performance objective; materials; lesson-capsule; and observations. A "must" for every school desiring effective Career Education.

Three other important guidebooks for career exploration programs are as follows:

K-12 Guide for Integrating Career Development into Local Curriculum. by Harry N. Drier, Jr. Worthington, Ohio, Charles A. Jones Publishing Co., 1972. 272p. $6.95. This guide to local development of Career Education curriculum includes basic concepts, models, procedures, objectives, resources and suggestions for evaluation.

Career Education: A Handbook for Implementation. Washington, D.C., G.P.O., 1972. $55. This is the single most complete document on Career Education from U.S.O.E. This handbook seeks to answer these four

questions: (1) What are the concepts of Career Education? (2) Why is Career Education needed? (3) What are examples of Career Education practice? (4) What are the appropriate strategies for implementation for a school system interested in the concept?

Career Education: The New Frontier, by Ressler. Worthington, Ohio, Charles A. Jones Publishing Co., 1972. 128p. $5.95. This book was designed to assist teachers and administrators to initiate Career Education programs in elementary and secondary schools.

(2) CHILDCRAFT VOLUMES

Childcraft: The How and Why Library. Revised edition. Chicago, Field Enterprises Educational Corporation. 1972. 15 vols. $89.00 for schools. Three of the volumes – *How Things Work*, *How We Get Things*, and *What People Do* – of this well-known, widely acclaimed set of 15 volumes are especially relevant to a career conscious school. These three volumes give insights into our modern world of mass production and automation. They offer fascinating, easy-to-follow explanations of the workings of more than 350 everyday things and machines and men involved in the world of work – all conveyed within the range of a young child's conceptual understanding. However, they can be purchased only as a part of the set.

The complete set is a creative contribution to the education of pre-school and primary-grade children. With its coverage of literature, science, social studies, arts, and crafts, it is an excellent learning link between home and school. One of the delights of this set is its exceptional use of attractive photographs and illustrations which enliven almost every page. This 15 volume set should belong in every elementary school library and hopefully in every home where parents are concerned about the education of their children.

(3) T4C EPISODES

Curriculum episodes of the N.J. Technology for Children program are available for strengthening major sections of the elementary school instructional plan. They are brief, exploratory and especially suitable for informal class settings.

Technology for Children episodes are available in the areas of language arts, mathematics, science, social studies, and environmental studies. The complete list of those episodes now available or now in preparation follows:

LANGUAGE ARTS

Discovering Machines, Electro the Electron, Writing Poems for Silk Screen Cards, Sending and Receiving Police Calls, Discovering Modes of Transportation, etc., The Post Office, Exploring the Buildings and Building, etc., Traveling Thoughts Via Telephone Lines, A Television Production, Weights and Measures, Food Process, Man the Inventor, A Rubber Stamp Business, Making Dioramas, Wood Charcoal, The Class Newspaper, Videotape Production, Theatre Sets, Communications (newspaper)

MATH

Shapes, Objects and Things, Time, Marine – Nautical, Understanding of Motors, Engines, Aeronautical Aerospace, Research, Development, and Testing, Computer Mathematics

SCIENCE

How We Learn, Cold Frame, Exploring Materials & Structures, Sound, Time, Astronomy, Incubating Eggs, Math Learning Aids, Exploring Simple Machines, Study of Ant Life, Exploring Electricity, Simple Circuits, etc., Simple Machines, Testing Conditions for Plant Growth, Photography, Simple Microscope, Weather Station, Mazes – Mice or Gerbils and Learning, Water Clock and Sundial, Laser, Home Economics (primary grades)

SOCIAL STUDIES

Merchandising, Cookie Business, Mail Service, Weaving & Textiles, Candle Making, Economics Technology (how to incorporate), Economy (primary grades – bank, bank books, deposit, withdraw, store, purchasing, pricing, supply and demand, cash register, telephone).

ENVIRONMENTAL STUDIES

Model of New Jersey (soils, county lines, historic landmarks, etc.)

Agriculture

Environmental Awareness

Transmission Center or Ecology

Model City (ecology) and *Solar System*.

For more information about the availability of these episodes, write the Technology for Children Program, Rm. 302, N.J. State Department of Education, 225 West State Street, Trenton, N.J. 08625.

(4) JCEE PUBLICATIONS

The Joint Council on Economic Education has available the following elementary level instructional materials important for an understanding of the economic background for careers. They may be ordered from this address: 1212 Avenue of the Americas, New York, N.Y. 10036:

The Child's World of Choices. Developed by Des Moines DEEP, 1968. 186p. (No. 129, $3.00). Provides a means of incorporating economic understandings into social studies curriculum by grade level. Five basic economic generalizations provide focal point while students discover their significance by examining the family in decision-making roles (consuming, income-earning, tax-paying, saving units). Includes: non-technical overview of economic generalizations; suggested children's activities; and a list of economic terms and their definitions.

Student Activity Book for the Child's World of Choices, Grade 2. Developed by Des Moines DEEP, 1970. Activity Book, 31p. (No. 130) $1.50; Teacher's Guide, 71p. (No. 131) $2.25 Activity book contains pictorial illustrations of economic generalizations to strengthen student's understanding of important economic dimensions. Teacher's guide provides framework for introducing children to key economic ideas through use of activities and a series of discussion questions for each of the activities.

Primary Test of Economic Understanding (Grades 2-3). By Donald G. Davison and John H. Kilgore. 1971. Examiner's Manual, 32p. (No. 145), $2.00; Test Booklets – Package of 25 (No. 146), $5.25. Evaluation instrument to measure students' growth and assess effectiveness of existing materials, teaching strategies and economic education programs for social studies teachers in the primary grades. 64 "yes-no" questions. Manual includes outline of five major economic generalizations with related understandings, concepts and sub-concepts which provide conceptual framework of test.

Test of Elementary Economics (Grades 4-6). Developed by Economic Education Enrichment Program (EEEP), West Springfield School System, Massachusetts. 1971. Interpretive Manual and Rationale, 26p. (No. 139); $1.50; Test Booklets – Package of 25 (No. 140); $5.00. An experimental evaluation instrument to measure learning of economic concepts at an intermediate level. Classroom-tested with sixth graders. Manual includes 40 multiple-choice questions with rationale for each, technical normative data, answer sheet and scoring key.

Also available are these series of supplements providing teaching activities and lists of resources:

Teachers Guide to Economics, Grade 1. 1968, 64p. (No. 101) $2.00.

Teachers Guide to Economics, Grade 2. 1968 48p. (No. 102) $2.00.

Teachers Guide to Economics, Grade 3. 1968 50p. (No. 103) $2.00.

Teachers Guide to Economics, Grade 4. 1968, 55p. (No. 104) $2.00.

Teachers Guide to Economics, Grade 5. 1968, 66p. (No. 105) $2.00.

Included are suggestions for evaluating student understanding for the above five guides.

F. INSTRUCTIONAL MATERIALS FOR CAREER EDUCATION IN MICROFICHE FORM

A major listing of Career Education instructional materials in ERIC microfiche has been made available by the Center for Vocational and Technical Education at Ohio State University: *Abstracts of Instructional Materials for Career Education* by Allen B. Moore (1972).

A sample listing of curriculum units, teacher guides, handbooks and instructional materials for Career Education appropriate for this elementary age group follows. The reader should remember that all of these items can be secured without charge in microfiche form from the N.J. Occupational Resource Center; both the "VT" and "ED" numbers will be required to secure a copy.

GRADES K-6:

Art Program Guide, K-12. VT015340 – ED067490

Auto Workers. Guided Occupational Orientation. VT014566 – ED063502

Career Development Activities to Accompany Occupacs (K-6). VT015352 – ED067490

Career Development Curriculum Guide. VT015962 – ED067490

Career Development Guide, Grades K-12. VT015347 – ED067490

Career Education. Elementary School Teachers' Guide to Ideas. Career Awareness, Grades 1-6. VT015365 – ED067490

Careers in Conservation. Guided Occupational Orientation. VT014555 – ED063502

Economic Education in the Social Studies. An Instructional Guide, Kindergarten through Grade 6. VT015094 – ED-067490

Elementary Guide for Career Development. VT014569 – ED063502

The Factory: A Role-playing Unit in Vocational Development for Primary and Intermediate School Students. VT015233 – ED067490

Fashion and Clothing Careers. Guided Occupational Orientation. VT014558 – ED063502

Firefighters. Guided Occupational Orientation. VT014562 – ED063502

Focus on Career Development. K-12 Curriculum Guide. VT015980 – ED067490

Guide for Integration of Career Development, Grades K-5. VT015977 – ED067490

Guide for the Development of Respect for Self and Others: A Source for Educators in Teaching Wholesome Attitudes toward Daily Life and Work. Primary-Intermediate Grades. VT015325 – ED067490

Health Careers. Guided Occupational Orientation. VT014554 – ED063502

Hospital Careers. Guided Occupational Orientation. VT014553 – ED063502

Industrial Arts Instructional Guide for Grades K-6. Elementary School Practical Arts, Publication EC-150 – ED030770

Industrial Arts, K-12+. VT014371 – ED063502

K-9 Learners and the Occupac Approach. VT015351 – ED067490

Newspaper Careers. Guided Occupational Orientation. VT014567 – ED063502

Occupational Information in the Curriculum: Kindergarten through Seventh Grades. A Summary Report. VT015488 – ED067490

Occupational Information via TV. Occupational Information Materials Project. ED063462

People who Work with Animals. Guided Occupational Orientation. VT014557 – ED063502

Restaurant Careers. Guided Occupational Orientation. VT014561 – ED063502
School Workers. Guided Occupational Orientation. VT014560 – ED063502
Self Awareness through Black Studies. VT015206 – ED067490
Store Workers. Guided Occupational Orientation. VT014563 – ED063502
Telephone Careers. Guided Occupational Orientation. VT014559 – ED063502
Transportation Careers. Guided Occupational Orientation. VT014556 – ED063502
The World of Work. Guided Occupational Orientation. VT014519 – ED063502

GRADE 1:

Grooming Services. Elementary Unit for Grades 1 and 2. Cobb County Occupational and Career Development Program. VT015283 – ED067490
Handbook for Occupational Awareness, K-12. VT015931 – ED067490
I'm Important – to Others Too. VT015169 – ED067490
Just Me. VT015314 – ED067490
Let's Pretend. VT015306 – ED067490
Officer Friendly – First Grade, Second Grade, and Teacher's Manual. VT015203 – ED067490
Social Studies, Grade One. Unit I: We All Go to School. VT015358 – ED067490
Social Studies, Grade One. Unit II: Family Living at Home. VT015451 – ED067490

GRADE 2:

America's Bread Basket. Pupil Materials, Social Studies Grade Two. VT015107 – ED067490
Community Helpers. A World of Work Unit. Second Grade. Elementary Career Guidance Project. VT015186 – ED067490
Courtesy – A Book Party. VT015302 – ED067490
Grooming Services. Elementary Unit for Grades 1 and 2. Cobb County Occupational and Career Development Program. VT015283 – ED067490
Handbook for Occupational Awareness, K-12. VT015931 – ED067490
Letter Writing. VT015261 – ED067490
Officer Friendly – First Grade, Second Grade, and Teacher's Manual. VT015203 – ED067490
Outdoor Careers – Careers in Agriculture. A resource unit for Grades One and Two. VT015221 – ED067490
The Post Office Postal System. Pupil Materials – Social Studies. VT015103 – ED067490
Small Farms Social Studies Instructional Guide, Grade A2. Part I: Truck Farms. VT015105 – ED067490
Social Studies, Grade Two. Unit I: Where We Live and Unit II: Services in the Community. VT015452 – ED067490

GRADE 3:

Handbook for Occupational Awareness 3-4. VT015932 – ED067490
Language and the Dictionary. Suggested Grade 3. VT015742 – ED067490
Library. VT015305 – ED067490
The Post Office Postal System. Pupil Materials – Social Studies. VT015103 – ED067490

GRADE 4:

Handbook for Occupational Awareness 3-4. VT015932 – ED067490
Health Occupations. VT015226 – ED067490
Letters to the Authors. VT015303 – ED067490
Outdoor Careers (Plant Life). A Resource Unit for Grades Three and Four. VT015222 – ED067490

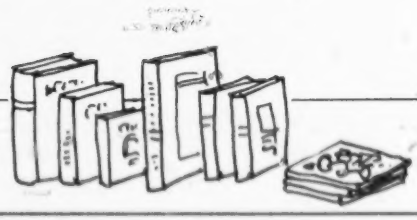
GRADE 5:

Employment Bureau, 5th Grade. VT015225 – ED067490
Handbook for Occupational Awareness, 5-6. VT015933 – ED067490
Making a Report. VT015308 – ED067490
Semantics. VT015741 – ED067490

GRADE 6:

Addendum 12 – Proud Employment Agency. VT015188 – ED067490
Handbook for Occupational Awareness, 5-6. VT015933 – ED067490
Man and His Food Supply. Pupil Material, Social Studies – Grade Six. VT015099 – ED067490
Man and His Resources. Pupil Material, Social Studies – Grade Six. VT015098 – ED067490
OVT Exploratory Program. Phase I, II, and III. Grades 6-8. Course of Study. VT015421 – ED067490

10. books for students



A large number of books are already available in most libraries that could be used for the Career Education of elementary children. Perhaps, one of the most familiar series would be the over 42 titles included in the "I Want To Be Books" by Carla Greene and Eugene Baker published by Children's Press.

G. P. Putnam and Sons has also put out over 40 books in several series such as the "Community Helper Series", "I Know Series", "In Action Series" and "Let's Go Community Series". Not all the titles in the above series have been included in the list. Just those titles appearing since 1968.

Since this list includes titles appearing since 1968, only those sources with publication dates of 1968 and later were checked for possible titles. The sources checked were Arbuthnot's *Children's Books Too Good To Miss*, 1971; *Best Books for Children 1972* (Bowker); *Books for School and Public Libraries* (Bro-Dart), 1971; *Children's Books in Print, Subject Guide 1971* (Bowker); and Mary Gaver's *The Elementary School Library Collection, A Guide to Books and Other Media*, 5th edition and supplement, 1970. (Bro-Dart). Also, many publisher's catalogs, such as Children's Press Book catalog, have been checked for recently published titles.

The titles have been arranged under four categories: (A) Information on individual careers; (B) Books that include information on several careers; (C) Biographies; (D) Career related topics, such as the manufacturing of paper, and (E) Yes, comic books. Within each subject area, the books are arranged alphabetically by author. For each of the titles, there is given the author, publisher, publication date and cost.

All of the books on this list are, or will be, available at the Edison Resource Center for examination and loan. The reader is advised to examine specific books at the center before making a selection for purchase.

A. INDIVIDUAL CAREERS

Baker, Eugene. *I Want to Be An Architect*. Children's Press, 1969. $3.25.

Baker, Eugene. *I Want to Be A Beauty Operator*. Children's Press, 1969. $3.25.

Baker, Eugene. *I Want to Be A Forester*. Children's Press, 1969. $3.25.

Baker, Eugene. *I Want to Be A Sales Clerk*. Children's Press, 1969. $3.25.

Baker, Eugene. *I Want to Be A Secretary*. Children's Press, 1969. $3.25.

Baker, Eugene. *I Want to Be A Taxi Driver*. Children's Press, 1969. $3.25.

Bair, Jene. *Busy Office, Busy People*. (Community Helpers) Albert Whitman, 1968. $1.95.

Bergaust, Eric. *Aircraft Carriers In Action*. Putnam, 1968.

Bergaust, Eric & Wm. O. Foss. *Oceanographers In Action*. (In Action Books) Putnam, 1968. $3.29.

Buehr, Walter. *Freight Trains of the Sky*. Putnam, 1969. $3.49.

Colby, C.B. *Police: Skill and Science Combat Crime*. Coward-McCann, 1971. $3.29.

Collier, James Lincoln. *Danny Goes to the Hospital*. Norton, 1970. $3.32.

Compton, Grant. *What Does a Coast Guardsman Do?* Mead, 1968. $2.99.

Coombs, Charles, B. *Cleared for Takeoff: Behind the Scenes at an Airport*. Morrow, 1969. $4.14.

Cromer, Richard & Others. *The Miracle of Flight*. Doubleday, 1968. $4.95.

Dietz, Betty W. *You Can Work in the Education Services*. John Day, 1968. $3.96.

Ditzel, Paul C. *Fire Alarm. The Story of a Fire Department*. Van Nostrand, 1969. $2.65.

Ditzel, Paul C. *Firefighting; a New Look in the Old Firehouse*. Van Nostrand, 1969. $3.32.

Englebardt, Stanley L. *Careers in Data Processing*. Lothrop, 1969. $3.78.

Froman, Robert. *Let's Find out about the Clinic*. Watts, 1968. $2.21.

Furnas, Clifford C. *The Engineer*. Time-Life Books, 1968. $5.76.

Gordon, George N. & Falk, Irving A. *Your Career in Film Making*. Messner, 1969. $3.95.

Greene, Carla. *Let's Learn About Lighthouses*. Harvey, 1969. $3.25.

Harrison, C. William. *Find a Career in Railroading*. Putnam, 1968. $3.49.

Heal, Edith. *Beauty as a Career*. Messner, 1969. $3.95.

Hill, Robert W. *What the Moon Astronauts Will Do All Day: The Official Plan of Project Apollo*. John Day, 1969. $2.86.

Jablonski, Edward. *Ladybirds: Women in Aviation*. Hawthorn, 1968. $3.95.

Jackson, David. *The Wonderful World of Engineering*. Doubleday, 1969. $3.95.

Kahane, Melanie. *There's a Decorator in Your Doll House*. Atheneum, 1968. $9.95.

Kahn, Ely Jacques. *Building Goes Up*. Simon & Schuster, 1969. $3.79.

Kay, Eleanor. *The First Book of Nurses*. Watts, 1968. $2.81.

Peet, Creighton. *Eye On The Sky; How Aircraft Controllers Work*. Macrae Smith, 1970. $4.71.

Ray, E. Roy. *What Does an Airline Crew Do?* Dodd, Mead, 1968. $3.23.

Rowe, Jeanne A. *City Workers*. Watts, 1969. $2.95.

Rowland, Florence Wightman. *Let's Go to a Hospital*. Putnam, 1968. $2.68.

Scharff, Robert. *Aircraft in Pictures*. (Visual Industry Series) Sterling, 1968. $3.95.

Shannon, Terry. *The Sea Searchers; Men and Machines at the Bottom of the Sea*. Golden Gate Junior Books, 1968. $4.33.

Shay, Arthur. *What Happens When You Go to the Hospital*. Reilly & Lee, 1969. $2.35.

Shay, Arthur. *What Happens When You Mail a Letter*. Reilly and Lee, no date or price.

Shay, Arthur. *What Happens When You Travel By Plane*. Reilly & Lee, 1968. $4.05.

Shortall, Leonard. *Andy the Dog Walker*. Morrow, 1968. $2.94.

Stanek, Muriel. *I Know an Airline Pilot*. (Community Helper Series) Putnam, 1969. $2.52.

Stevens, Leonard A. *North Atlantic Jet Flight*. Crowell, 1968. $2.51.

Sullivan, George. *New World of Construction Engineering*. Dodd, Mead, 1968. $3.23.

Telfer, Dorothy. *Exploring the World of Oceanography*. Children's Press, 1968. $4.50.

Unnerstad, Edith. *Larry Makes Music*. Norton, 1969. $3.95.

Wilkinson, Jean and Ned. *Come to Work with Us in a Hospital*. Children's Press, 1970. $3.38.

Wilkinson, Jean and Ned. *Come to Work with Us in a TV Station*. Children's Press, 1970. $3.38.

Wilkinson, Jean. *Come to Work with Us in a Toy Factory*. Children's Press, 1970. $3.38.

Wilkinson, Jean. *Come to Work with Us in Aerospace*. Children's Press, 1970. $3.38.

Wilkinson, Jean and Ned. *Come to Work with Us in an Airport*. Children's Press, 1970. $3.38.

Wilkinson, Jean. *Come to Work with Us in House Construction*. Children's Press, 1970. $3.38.

Williams, Barbara. *I Know A Bank Teller*. Putnam, 1968. $2.52.

Williams, Barbara. *I Know a Garageman*. Putnam, 1968. $2.52.

Zim, Herbert S. *Trucks*. Morrow, 1970. $3.56.

Zim, Herbert S. *Cargo Ships*. Morrow, 1970. $3.56.

B. SEVERAL CAREERS

Baker, E. & Downing, J. *Workers Long Ago*. Children's Press, 1968. $2.44.

Behrens, June. *A Walk in the Neighborhood*. Elk Grove, 1968. $3.89.

Lent, Henry B. *Men at Work in the South*. Putnam, 1969. $2.85.

Lent, Henry. *Men At Work on the West Coast*. (Men at Work Series) Putnam, 1968. $3.00.

Maher, John E. *Learning about People Working for You*. Watts, 1969. $2.21.

Rubicam, Harry C. *Men at Work in Hawaii*. Putnam, 1968. $3.00.

Rubicam, Harry Jr. *Men at Work in the Great Plains States*. (Men at Work Series) Putnam, 1968. $3.00.

Scarry, Richard. *What Do People Do All Day*. Random, 1968. $3.95.

Winn, Marie. *Man Who Made Fine Tops: A Story about Why People Do Different Kinds of Work*. Simon and Schuster, 1970. $3.07.

What People Do. Field Enterprises (Childcraft: the How and Why Library V. 10.), 1971. $89.00. Available only in 15 Vol. set.

C. BIOGRAPHIES

Coleman, James. *Whatever You Can't Have*. Children's Press, 1970. $2.25. (Black Personnel Administrators)

Collins, David R. *Great American Nurses*. Messner, 1971. $4.50.

Davis, Charles. *On My Own*. Children's Press, 1970. $2.25.

Diaz, Paul. *Up From El Paso*. Children's Press, 1970. $2.25. (Building Inspector)

Durham, John & Klinger, Gene. *Someday I'm Going to Be Somebody*. Children's Press, 1970. $2.25. (Black Director of Computer Operation)

Ellis, James. *Run for Your Life*. Children's Press, 1970. $2.25. (Black Community Social Worker)

Fisk, Nicholas. *Lindbergh, the Lone Flier*. Coward-McCann, 1968. $3.29.

Geary, Chuck. *What I'm About is People*. Children's Press, 1970. $2.25. (Community Social Worker)

Hannahs, Herb. *People Are My Profession*. Children's Press, 1970. $2.25. (Black House of Correction Caseworker)

Hoard, Edison. *Curse Not the Darkness*. Children's Press, 1970. $2.25. (Black Attorney)

Jones, Mallory. *So Many Detours*. Children's Press, 1970. $2.25. (Owner of MacDonald Hamburger Franchise)

Lopez, Arthur. *El Rancho De Muchachos*. Children's Press, 1970. $2.25. (Mexican-American Social Worker)

Mack, John. *Nobody Promised Me*. Children's Press, 1970. $2.25. (Black Educator)

McCalys, Wm. *Call It Fate*. Children's Press, 1970. $2.25. (Drug Counselor)

Martinez, Jose & Smith, Emmett. *Foot in Two Worlds*. 1970. $3.00. (Puerto-Rican-American Policeman)

Paterson, Betty. *I Reached for the Sky*. Children's Press, 1970. $2.25. (Stewardesses)

Radford, Ruby L. *Inventors in Industry*. Messner, 1969. $3.95.

Robinson, Emmett. *Where There's Smoke*. Children's Press, 1970. $2.25.

Sagara, Peter. *Written on Film*. Children's Press, 1970. $2.25. (Japanese-American Commercial Photographer)

Sims, William. *West Side Cop*. Children's Press, 1970. $2.25.

Stallworth, Dave. *Look to the Light Side*. Children's Press, 1970. $2.25. (Black Pro-Basketball Player)

Standerford, Betsy. *No Hablo Ingles*. Children's Press, 1970. $2.25. (American Indian Personnel Consultant)

Stovall, Emmett. *In the Face of the Sun*. Children's Press, 1970. $2.25. (Airline Career)

Sullivan, George. *They Flew Alone*. 1969. $3.16.

Thompson, Chester. *New Fields*. Children's Press, 1970. $2.25. (Black Engineer)

Travis, Dempsey. *Don't Stop Me Now*. Children's Press, 1970. $2.25. (Black Mortgage Banker)

Washington, Adolphus. *Hey Taxi*. Children's Press, 1970. $2.25.

Williams, Billy. *Iron Man*. Children's Press, 1970. $2.25. (Black Baseball Player)

Williams, Joe. *Enterprise*. Children's Press, 1970. $2.25. (Owner of an Industrial/commercial Laundry)

Yorkley, Joseph. *Meigs Tower*. Children's Press, 1970. $2.25. (Air Traffic Controller)

D. CAREER TOPICS

Aylesworth, Thomas G. *It Works Like This; a Collection of Machines from Nature and Science*. Doubleday, 1968. $3.50

Blandford, Edmund. *The True Book of Flight*. Children's Press, 1968. $2.81.

Buehr, Walter. *Food From Farm to Home*. Morrow, 1970. $3.56.

Buehr, Walter. *Salt, Sugar and Spice*. Morrow, 1969. $3.56.

Burt, Olive W. *The First Book of Copper*. Watts, 1968. $2.81.

Carlisle, Madelyn. *About Satellites*. Children's Press, 1971. $2.44.

Carlisle, Norman & Madelyn. *About Submarines*. Children's Press, 1969. $2.44.

Chase, Sara Hannum. *The First Book of Silver*. Watts, 1969. $1.98.

Clarke, Mary Stetson. *Pioneer Iron Works*. Chilton, 1968. $4.25.

Cohn, Angelo. *The Wonderful World of Paper*. 1968. $4.00.

Dean, Anabel. *About Paper*. Children's Press, 1968. $2.44.

Ellison, Virginia H. *The Pooh Cook Book*. Dutton, 1969. $4.45.

Fry, Edward. *Typing Course for Children*. Drier Ed. Systems, 1969. $5.21.

Glassner, Sherwins and Grossman, Edward N. *How the American Economic System Functions*. Benefic Press, 1968. $1.95.

Hammond, Winifred. *Cotton from Farm to Market*. Coward-McC., 1968. $3.29.

Hawkinson, Lucy. *Picture Book Farm*. Children's Press, 1971. $2.63.

Hudson, Selma. *About Spices*. Children's Press, 1971. $2.44.

Jacobs, David & Anthony E. Neville. *Bridges, Canals and Tunnels: the Engineering Conquests of America*. Hale & Van Nostrand, 1968. $4.95.

Kinsler, Doris & Stephen Kinster. *Computers: Machines with a Memory*. Hawthorn, 1968. $3.50.

Lent, Henry B. *Agriculture U.S.A.; America's Most Basic Industry*. Dutton, 1968. $4.95.

Lent, Henry B. *The Automobile - U.S.A.: Its Impact on People's Lives and the National Economy*. Dutton, 1968. $4.95.

Lewis, Alfred. *New World of Food*. Dodd, Mead, 1968. (The New World Series) $3.23.

Luhrmann, Winifred. *The First Book of Gold*. Watts, 1968. $2.65.

Meyer, Carolyn. *Miss Patch's Learn-To-Sew Book*. Harcourt, Brace and World, 1969. $3.99.

Pondendorf, Illa. *Food Is For Eating*. Children's Press, 1970. $3.38.

Radlauer, Edward & Ruth. *Whose Tools are These?* Elk Grove Press, 1968. $3.99.

Russell, Solveig. *The Farm*. Parents Magazine Press, 1970. $3.47.

Sullivan, George. *How Do They Grow It?* Westminister, 1968. $4.95.

Telfer, Dorothy. *About That Amazing Portland Cement*. Children's Press, 1971. $2.44.

Tracy, Edward B. *The New World of Aluminum*. Dodd, 1968. $3.00.

Weiss, Harvey. *Motors and Engines and How They Work*. Crowell, 1969. $3.02.

Wiesenthal, Eleanor. *Lets Find out about Tools*. Watts, 1969. $2.21.

Wyman, Margaret. *Perfume in Pictures*. Sterling 1968. $3.95. (Visual Industry Series)

Zim, Herbert S. *Machine Tools*. Morrow, 1969. $3.36.

E. YES, COMIC BOOKS

Even the lowly comic book can assist in the career development of elementary school students.

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